

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	130	(Murayama near Hideki).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L2	246	(Horikawa near Kazuo).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L3	82	(Yashiro near Hiroshi).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L4	44	(Yamauchi near Masahiko).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L5	540	(Ishii near Yasuhiro).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L6	27	(Sasaki near Daisuke).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L7	963	L1 or L2 or L3 or L4 or L5 or L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L8	7326	memory adj2 allocation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L9	373	expandable adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L10	18	L8 and L9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41

L11	20876	memory adj2 size	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L12	128138	(EPROM or EEPROM or FLASH or nonvolatile) adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L13	1488	hot adj2 insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L14	16702	size adj2 information	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L15	3979	L11 and L12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L16	19	L13 and L14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L17	5	L15 and L16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L18	18	L8 and L9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L19	5	L15 and L16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L20	0	L18 and L19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41

L21	10217	(virtual or logical) near2 map\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:41
L22	4982	DLAT or TLB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:46
L23	162414	initializ\$4 or ((raw or cold) adj boot)\	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:46
L24	162414	initializ\$4 or ((raw or cold) adj boot)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:48
L25	862	21 and 22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:48
L26	329	24 and 25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:48
L27	0	18 and 26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:48
L28	0	16 and 26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/02 16:48

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	16538	memory adj2 size	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:34
S2	85882	(EPROM or EEPROM or FLASH or nonvolatile) adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:54
S3	1286	hot adj2 insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:54
S4	12981	size adj2 information	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:54
S5	5598	memory adj2 allocation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:55
S6	318	expandable adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:55
S7	957411	bank or module or segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:55
S8	2706	S1 and S2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/04/13 15:55
S9	14	S3 and S4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S10	17	S5 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42

S11	5	S8 and S9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S12	0	S10 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S13	1	S11 and S7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S14	125	(Murayama near Hideki).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:41
S15	245	(Horikawa near Kazuo).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:41
S16	77	(Yashiro near Hiroshi).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S17	40	(Yamauchi near Masahiko).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S18	533	(Ishii near Yasuhiro).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S19	24	(Sasaki near Daisuke).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S20	1390	hot adj2 insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42

S21	14579	size adj2 information	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:37
S22	17	S20 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:37
S23	6353	memory adj2 allocation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S24	345	expandable adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S25	18	S23 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S26	18458	memory adj2 size	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S27	102703	(EPROM or EEPROM or FLASH or nonvolatile) adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S28	3268	S26 and S27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S29	17	S20 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S30	5	S28 and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38

S31	1043997	bank or module or segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S32	5	S28 and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/10 15:38
S33	1	S32 and S31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:42
S34	18	S23 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S35	0	S34 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S36	943	S14 or S15 or S16 or S17 or S18 or S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S37	0	S36 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S38	127	(Murayama near Hideki).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S39	245	(Horikawa near Kazuo).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S40	78	(Yashiro near Hiroshi).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43

S41	40	(Yamauchi near Masahiko).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S42	535	(Ishii near Yasuhiro).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S43	24	(Sasaki near Daisuke).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S44	1418	hot adj2 insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S45	1418	hot adj2 insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S46	15176	size adj2 information	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S47	17	S45 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S48	6622	memory adj2 allocation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S49	351	expandable adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S50	18	S48 and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43

S51	19198	memory adj2 size	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S52	110311	(EPROM or EEPROM or FLASH or nonvolatile) adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S53	3493	S51 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S54	17	S45 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S55	5	S53 and S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S56	18	S48 and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S57	5	S53 and S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S58	0	S56 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S59	1081684	bank or module or segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S60	1	S57 and S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43

S61	1418	hot adj2 insert\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S62	15176	size adj2 information	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S63	19198	memory adj2 size	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S64	110311	(EPROM or EEPROM or FLASH or nonvolatile) adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S65	3493	S63 and S64	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S66	17	S61 and S62	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S67	1081684	bank or module or segment	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S68	5	S65 and S66	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S69	1	S68 and S67	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S70	6622	memory adj2 allocation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43

S71	351	expandable adj2 memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S72	18	S70 and S71	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S73	18	S70 and S71	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S74	0	S73 and S68	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:43
S75	127	(Murayama near Hideki).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44
S76	245	(Horikawa near Kazuo).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44
S77	78	(Yashiro near Hiroshi).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44
S78	40	(Yamauchi near Masahiko).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44
S79	535	(Ishii near Yasuhiro).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44
S80	24	(Sasaki near Daisuke).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44

S81	948	S75 or S76 or S77 or S78 or S79 or S80	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44
S82	0	S81 and S73	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/15 13:44

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[1 The HP AutoRAID hierarchical storage system](#)

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

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Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

[2 The HP AutoRAID hierarchical storage system](#)

J. Wilkes, R. Golding, C. Staelin, T. Sullivan

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